

REMARKS

The Official Action of September 9, 2004, and the prior art cited and relied upon therein have been carefully studied. The claims in the application are now claims 13-21, and these claims define patentable subject matter warranting their allowance. Favorable reconsideration and such allowance are respectfully urged.

Claim 12 has been canceled in favor of new independent claim 21.

In response to the Examiner's objection to the abstract and the disclosure, Applicant has:

(1) Enclosed a new substitute abstract for that originally filed which eliminates all legal phraseology and incorporates the features included in new independent claim 21, and

(2) Amended the disclosure to properly identify pin 111 on page 5, line 11, insert appropriate section headings and describe pivot (26) shown in the drawings but not described in the specification. Applicant respectfully submits that the Examiner's objection to the abstract and the disclosure has been overcome.

Applicant thanks the Examiner for his indication that claims 12-20 would be allowable subject to overcoming his 35 U.S.C. §112, second paragraph rejection of claims 12-20, his

suggested amendment of independent claim 12 and the courtesy and assistance provided in the December 7, 2004 telephone conference with the undersigned. In response, Applicant has canceled independent claim 12 in favor of new independent claim 21 which substantially follows the Examiner's suggested amendments with the exceptions discussed in our December 7, 2004 telephone conference. In that telephone conference, Applicant indicated that he did not understand the Examiner's term "in a direction opposite to said first direction" in line 10 of the Examiner's suggested independent claim set out in his September 9, 2004 Office Action. Page 4, lines 17-19 indicate that the second position of tool (15) when extracting the tire (6) from wheel rim (5) is either perpendicular to the axis of the device 9 or is oriented towards the frame 7. In Applicant's opinion, "oriented towards the frame 7" is not the same as "opposite to said first direction" when the first direction is "toward the center of the wheel rim".

Since the Examiner agreed that the above language was a problem, various amendments were discussed to overcome the problem. Of these, it was tentatively agreed to amend new independent claim 21 so as to describe the direction of tool (15) in terms of its rotation around pivot (26) which Applicant has now identified in the drawings and described in the disclosure.

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While Applicant understands that claim 21 as now drafted is only one of the ways to accurately describe the different directions tool (15) assumes, the Examiner agreed that he would consult with the undersigned if he believes the problem can be better addressed by a different approach.


At this point, Applicant respectfully submits that the Examiner's 35 U.S.C. §112, second paragraph rejection has been overcome and that the application is in condition for allowance.

Acknowledgement by the PTO of the receipt of applicants' papers filed under Section 119 is noted.

The prior art documents made of record and not relied upon have been noted along with the implication that such documents are deemed by the PTO to be insufficiently pertinent to warrant their applications against any of applicant's claims.

Favorable reconsideration and allowance are earnestly solicited.

Respectfully submitted,
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REPLACEMENT ABSTRACT

SIMPLIFIED AUTOMATIC TYRE DEMOUNTING DEVICE, AND TYRE REMOVAL
MACHINES EQUIPPED THEREWITH
ABSTRACT

Automatic device for demounting a tyre from the relative wheel rim having rotary apparatus which supports a wheel rim and tyre. The rotary apparatus is associated with a frame which supports a demounting tool. The demounting tool is associated with apparatus that can be positioned in a tire bead seeking and gripping position where the axis of the demounting tool is parallel to that of the frame or the demounting tool is rotated in a first direction towards the centre of the wheel rim, and positioned for extracting tire bead from the wheel rim in which the axis of the demounting tool is parallel to that of the frame or the demounting tool is rotated in a direction opposite to the first direction, said tool positioning means comprising a bar, to the end of which said tool is hinged in an intermediate position, and a connecting rod which at one end is hinged to one end of said tool, and at the opposite end is connected to said bar by a lever linkage, said bar being connected to means for advancing it and withdrawing it.

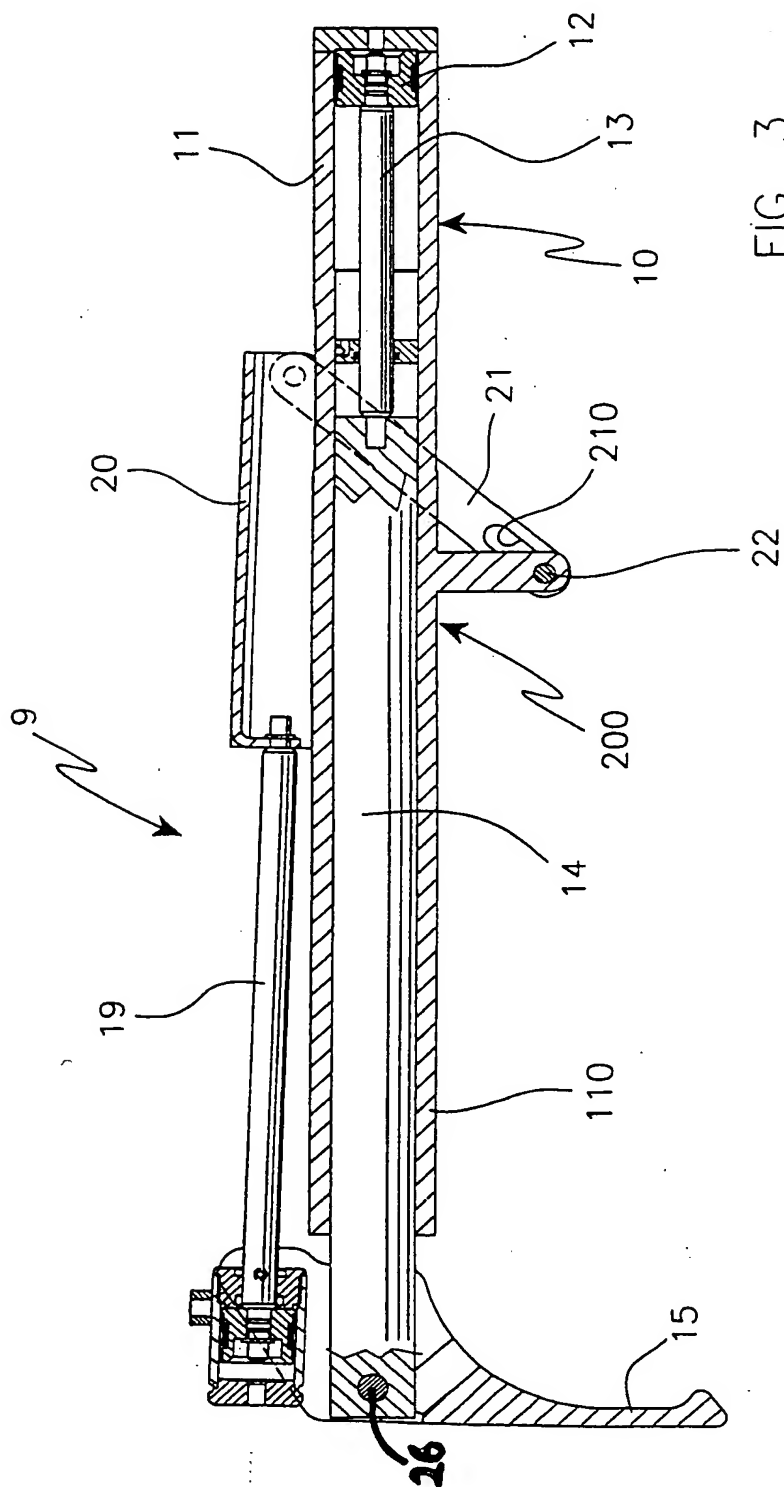
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AMENDMENTS TO THE DRAWINGS

The attached sheets of drawings include changes to Figure 3 and Figure 11. These sheets, which include Figures 3 and Figure 11 replaces the original sheets including Figures 3 and Figures 11. In Figure 3 and Figure 11, previously omitted element 26 has been added.

Attachment: Replacement Sheets
 Annotated Sheets Showing Changes

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